ELSEVIER

Biomembranes

Vol. 1239, 1995

BBA Biochimica et Biophysica Acta

Cumulative Contents

Publisher's Note *vii*

Information for Contributors *ix*

Regular Papers

Effect of substrates and pH on the intestinal Na^+/phosphate cotransporter: evidence for an intervesicular divalent phosphate allosteric regulatory site
B.E. Peerce (USA) 1

Examination of the molecular mechanism of SH reagent-induced inhibition of the intestinal brush-border membrane Na^+/phosphate cotransporter
B.E. Peerce, M. Cedilote and R.D. Clarke (USA) 11

Na-dependent glutamate transport in high K and high glutathione (HK/HG) and high K and low glutathione (HK/LG) dog red blood cells
H. Fujise, Y. Hamada, M. Mori and H. Ochiai (Japan) 22

Protein kinase C-dependent regulation of L-arginine transport activity in Caco-2 intestinal cells
M. Pan and B.R. Stevens (USA) 27

Effect of starvation on the activity of the mitochondrial tricarboxylate carrier
V. Zara and G.V. Gnoni (Italy) 33

The effect of bilayer composition on calcium ion transport facilitated by fluid shear stress
T.D. Giorgio and S.H. Yek (USA) 39

Electrophoretic evidence for the impairment of complexes of the respiratory chain during iron/ascorbate induced peroxidation in isolated rat liver mitochondria
T. Reinheckel, I. Wiswedel, H. Noack and W. Augustin (Germany) 45

Pore kinetics reflected in the dequenching of a lipid vesicle entrapped fluorescent dye
G. Schwarz and A. Arbuzova (Switzerland) 51

A comparison of the fluorescence properties of TMA-DPH as a probe for plasma membrane and for endocytic membrane
D. Illinger, G. Duportail, Y. Mely, N. Poirel-Morales, D. Gerard and J.-G. Kuhry (France) 58

The A_1 agonist CCPA reduced bisoxonol-monitored membrane potential depolarization elicited by high K^+ in cerebrocortical nerve endings
S. Amoroso, E. Iannotti, M.L. Saggese, G. Di Renzo and L. Annunziato (Italy) 67

The effect of lethal acid stress on Na^+/H^+ exchanger isoforms in cultured inner medullary collecting duct cells: deletion of NHE-2 and over expression of NHE-1
G. Singh, J.A. McAteer and M. Soleimani (USA) 74

The yeast plasma membrane proton pumping ATPase is a viable antifungal target. I. Effects of the cysteine-modifying reagent omeprazole
B.C. Monk, A.B. Mason, G. Abramochkin, J.E. Haber, D. Seto-Young and D.S. Perlin (USA, New Zealand) 81

Participation of a proton-translocating plasma membrane ATPase, acid phosphatase and alkaline phosphatase in ATP degradation by *Aspergillus niger* extracts
T.A. Elzainy and T.H. Ali (Egypt) 91

Rapid Report

Activation of a Cl^--conductive pathway in primary cultures of rat inner medullary collecting duct (IMCD) cells under hypotonic stress
H. Sauer, R.K.H. Kinne and F. Wehner (Germany) 99

Publisher's Note *v*

Regular Papers

Changes in physical properties of vacuolar membrane during transformation of protein bodies into vacuoles in germinating pumpkin seeds
K. Strzałka, I. Hara-Nishimura and M. Nishimura (Poland, Japan) 103

Changes in the passive electrical properties of human stratum corneum due to electroporation
U. Pliquett, R. Langer and J.C. Weaver (USA) 111

Modelling packing interactions in parallel helix bundles: pentameric bundles of nicotinic receptor M2 helices
R. Sankararamakrishnan and M.S.P. Sansom (UK) 122

Attachment of antibodies to sterically stabilized liposomes: evaluation, comparison and optimization of coupling procedures
C.B. Hansen, G.Y. Kao, E.H. Moase, S. Zalipsky and T.M. Allen (Canada, USA) 133

Transmembrane gradient driven phase transitions within vesicles: lessons for drug delivery
D.D. Lasic, B. Čeh, M.C.A. Stuart, L. Guo, P.M. Frederik and Y. Barenholz (USA, Slovenia, The Netherlands, Israel) 145

A novel strategy affords high-yield coupling of antibody Fab′ fragments to liposomes
S. Shahinian and J.R. Silvius (Canada) 157

Rapid diffusion of the lipid phosphorus of phosphatidylglycerol liposomes through polycarbonate membranes is caused by the oxidation of the unsaturated fatty acids
C.-Y. Chow and T.D. Heath (USA) 168

An early transient increase of intracellular Na^+ may be one of the first components of the mitogenic signal. Direct detection by ^{23}Na-NMR spectroscopy in quiescent 3T3 mouse fibroblasts stimulated by growth factors
E. Berman, I. Sharon and H. Atlan (Israel) 177

Influence of monoglucosyldiacylglycerol and monoacylmonoglucosyldiacylglycerol on the lipid bilayer of the membrane from *Acholeplasma laidlawii* strain A-EF22
A.R. Niemi, L. Rilfors and G. Lindblom (Sweden) 186

Membrane fluidity of *Escherichia coli* during heat-shock
R. Mejía, M.C. Gómez-Eichelmann and M.S. Fernández (Mexico) 195

Amiloride-sensitive Na^+ conductance in native *Xenopus* oocytes
W.-M. Weber, K.M. Liebold and W. Clauss (Germany) 201

Injury of rat thymocytes caused by exogenous peroxyl radicals in vitro
L. Landi, M. Cipollone, L. Cabrini, D. Fiorentini, G. Farruggia and M.C. Galli (Italy) 207

Metastability of dimiristoylphosphatidylethanolamine as studied by FT-IR and the effect of α-tocopherol
J. Salgado, J. Villalaín and J.C. Gómez-Fernández (Spain) 213

Effects of plant sterols on the hydration and phase behavior of DOPE/DOPC mixtures
M.S. Webb, T.C. Irving and P.L. Steponkus (USA) 226

Determination of binding constants of Ca^{2+}, Na^+, and Cl^- ions to liposomal membranes of dipalmitoylphosphatidylcholine at gel phase by particle electrophoresis
K. Satoh (Japan) 239

Membrane permeabilization by α-helical peptides: a flow cytometry study
P. Midoux, R. Mayer and M. Monsigny (France) 249

Effects of the anesthetic steroid alphaxalone and its inactive Δ^{16}-analog on the thermotropic properties of membrane bilayers. A model for membrane perturbation
T. Mavromoustakos, D.-P. Yang and A. Makriyannis (Greece, USA) 257

Cumulative Contents, Vol. 1239 265

Author Index 267